

Presented by: **CDR Paul Willis**

BMC4I **TECHNOLOGY FOCUS** PEO (TAD), PEO SC/AP

INDUSTRY DAY



BMC3I



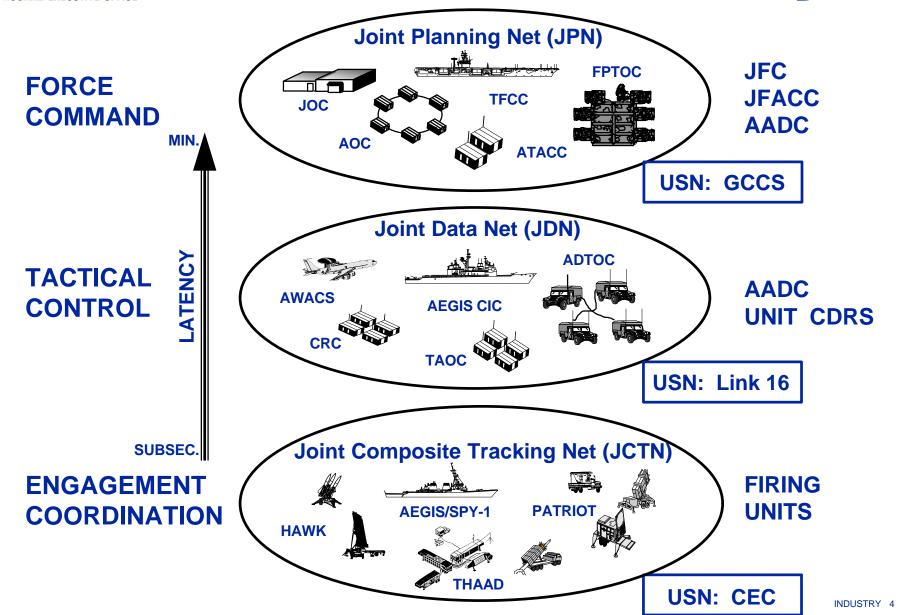
"A set of automated processes which respond to the C2 system's control directives. The BMC3I will provide the [defensive] system[s] with the capability of planning, coordinating, directing and controlling the surveillance and engagement operations of the system. It will consist of a distributed arrangement of personnel, equipment, communications, facilities, and procedures that will ensure timely human control of the battle management process. BMC3I consists of a battle planning function, an engagement planning function, and a battle execution function."

(USSPACECOM)



TAD JOINT NETWORK ARCHITECTURE

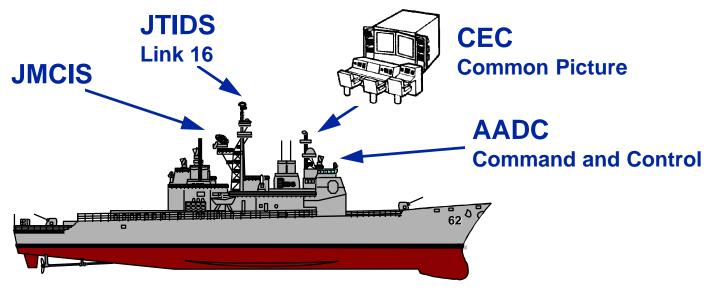




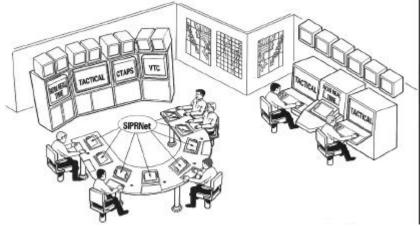


AREA AIR DEFENSE COMMANDER





Force Planning



Tactical Operations

22 AEGIS CRUISERS



COMMUNICATIONS FOCUS



- Key is communications capabilities and bandwidth
 - Navy constrained by shipboard real estate



TECHNOLOGY AREAS



- Less expensive, smaller antenna arrays
 - Multi-function Electromagnetic Radiating System (MERS)
 - UHF, JTIDS, IFF, Combat DF
 - Includes CEC ??
 - Low Observable Multi-function Stack (LO Stack)
 - SATCOM (UHF, INMARSAT, EHF, GBS)
- Increase bandwidth
 - Data compression ?
 - New waveforms?